P.02

NOV 1 8 2004

Docket No. YOB 3 40 9 3 9 1 9 0 US 1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

my residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or in original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a WHITE ! patent is sought on the invention entitled:

INTERCONNECTIONS FOR FLIP-CHIP USING LEAD-FREE SOLDERS AND HAVING REACTION BARRIER LAYERS

| is attached hereto. | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| X was filed on March 31, 200 | 4 as United Star | tes Application Number <u>10/815.1</u> | 0.3 |
| or PCT international Appli | ication Number | | |
| and was amended on | (if applica | ble) | |
| I hereby state that I have review the claims, as amended by any ame | ed and understend the content nument referred to above. | ts of the above identified specif | ication, including |
| I acknowledge the duty to disclos accordance with Title 37, Code of | | | application in |
| I hereby claim foreigm priority beany foreigm application(s) for pa | tent or inventor's certificat | ce, or 35 U.S.C. 365(a) of any PC | T International |
| identified below, by checking the | box, any foreign application | n for patent or inventor's certif | icate, or PCT |
| identified below, by checking the International application, having | box, any foreign application | n for patent or inventor's certif | icate, or PCT |
| identified below, by checking the International application, having Prior Foreign Application(s) | box, any foreign application a filing date before that of | n for patent or inventor's certiff the application on which priori | icate, or PCT ty is claimed: |
| identified below, by checking the International application, having | box, any foreign application | n for patent or inventor's certif f the application on which priori | icate, or PCT ty is claimed: Priority Claimed Yes No |
| identified below, by checking the International application, having Prior Foreign Application(s) | box, any foreign application a filing date before that of | n for patent or inventor's certiff the application on which priori | icate, or PCT ty is claimed: Priority Claimed Yes No |
| identified below, by checking the International application, having Prior Foreign Application(s) (Number) | box, any foreign application a filing date before that of (Country) | n for patent or inventor's certification on which priorication on which priorication of the application of which priorical filed) | icate, or RCT ty is claimed: Priority Claimed Yes No |
| identified below, by checking the International application, having Prior Foreign Application(s) (Number) (Number) | box, any foreign application a filing date before that or (Country) (Country) | (Day/Month/Year Filed) (Day/Month/Year Filed) | icate, or PCT Ty is claimed: Priority Claimed Yes No Yes No Yes No |
| identified below, by checking the International application, having Prior Foreign Application(s) (Number) (Number) (Number) I hereby claim the benefit under | box, any foreign application a filing date before that or (Country) (Country) | (Day/Month/Year Filed) (Day/Month/Year Filed) | icate, or PCT Ty is claimed: Priority Claimed Yes No Yes No Yes No |
| (Number) | box, any foreign application a filing date before that of (Country) (Country) (Country) 35 U.S.C. 119(e) of any Unite | (Day/Month/Year Filed) (Day/Month/Year Filed) | icate, or PCT Ty is claimed: Priority Claimed Yes No Yes No Yes No |

between the filing date of the prior application and the national or PCT international filing date of this application:

| (Application Serial No.) | (Filing Date) | (Status) | (patented, | pending, | abandoned) |
|--------------------------|---------------|----------|------------|----------|------------|
| (Application Serial No.) | (filing Date) | (ŝtatus) | (patented, | pending, | abandoned) |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

Richard M. Ludwin (Reg. No. 33,010), Richard Lau (Reg. No. 34,370), Christopher A. Hughes (Reg. No. 25,914), John E. Hoel (Reg No. 26,279), Joseph C. Redmond, Jr. (Reg. No. 18,753), Douglas W. Cameron (Reg. No. 31,596), Wan Yee Cheung (Reg. No. 42,410), Thu Ann Dang (Reg. No. 41,544), Louis P. Herzberg (Reg. No. 41,500), Derek S. Jennings (Reg. No. 41,473), Stephen C. Kaufman (Reg. No. 29,551), Daniel P. Morris (Reg. No. 32,053), Rafael Perez-Pineiro (Reg. No. 46,041), Marian Underweiser (Reg. 46,134), Robert M. Trepp (Reg. No. 25,933), and Gail H. Zarick (Reg. No. 43,303).

| DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION |
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| Direct Telephone Calls to: (name and telephone number) David Aker - (914) 674-1094 |
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| Paul A. Lauro | |
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| Inventor's Signature | 7//12/0/ |
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| Inventor's signature | Date |
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Docket No. YOR 30190US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

of the application or any patent issued thereon.

۴,

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) of an original first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INTERCONNECTIONS FOR FLIP-CHIP USING LEAD-FREE SOLDERS AND HAVING REACTION BARRIER LAYERS

| the specification of which (check | one) | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| is attached hereto. | | | |
| X was filed on March 31, 200 | 4 as United Stat | es Application Number <u>10/815,10</u> | 03 |
| or PCT International Appli | ication Number | | |
| and was amended on | (if applical | ole) | |
| I hereby state that I have review the claims, as amended by any ame | ed and understand the content indment referred to above. | s of the above identified specif. | ication, includir |
| I acknowledge the duty to disclos accordance with Title 37, Code of | e information which is materi Federal Regulations, Section | al to the patentability of this a 1.56. | application in |
| I hereby claim foreign priority b any foreign application(s) for pa application which designated at l identified below, by checking the International application, having | tent or inventor's certificat east one country other than t box, any foreign application | e, or 35 U.S.C. 365(a) of any PC the United States, listed below as a for patent or inventor's certif. | T International nd have also icate, or PCT |
| Prior Foreign Application(s) | | | Priority Claime |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes No |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes No |
| (Number) | (Country) | (Day/Month/Year Filed) | |
| I hereby claim the benefit under | 35 U.S.C. 119(e) of any Unite | d States provisional application | (s) listed below |
| (Application Number) | (Filing Date) | _ | |
| (Application Number) | (Filing Date) | _ | |
| I hereby claim the benefit under International application designa of the claims of this application in the manner provided by the fir information material to the paten between the filing date of the prapplication: | ating the United States, listent is not disclosed in the price st paragraph of 35 U.S.C. Sentability of this application | ed below and, insofar as the subject United States, or PCT Internated tion 112, I acknowledge the dut as defined in 37 C.F.R. 1.56 whi | ect matter of eac ional application y to disclose ch occurred |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pendi | ing, abandoned) |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pendi | ing, abandoned) |
| I hereby declare that all stateme information and belief are believ that willful false statements and | red to be true; and further th | owledge are true and that all sta nat these statements were made wi able by fine or imprisonment, or | th the knowledge |

POWER OF ATTORNEY: As a named inventor I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number).

Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity

Richard M. Ludwin (Reg. No. 33,010), Richard Lau (Reg. No. 34,370), Christopher A. Hughes (Reg. No. 26,914), John E. Hoel (Reg No. 26,279), Joseph C. Redmond, Jr. (Reg. No. 18,753), Douglas W. Cameron (Reg. No. 31,596), Wan Yee Cheung (Reg. No. 42,410), Thu Ann Dang (Reg. No. 41,544), Louis P. Herzberg (Reg. No. 41,500), Derek S. Jennings (Reg. No. 41,473), Stephen C. Kaufman (Reg. No. 29,551), Daniel P. Morris (Reg. No. 32,053), Rafael Perez-Pineiro (Reg. No. 46,041), Marian Underweiser (Reg. 46,134), Robert M. Trepp (Reg. No. 25,933), and Gail H. Zarick (Reg. No. 43,303).

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION Send Correspondence to: <u>David Aker</u> 23 Southern Road, Hartsdale, New York 10530 Direct Telephone Calls to: (name and telephone number) David Aker - (914) 674-1094 Keith E. Fogel Full name of sole or first inventor Inventor's Signature Date 7 Dew Drop Lane, Hopewell Junction, New York 12533 Residence United States of America Citizenship Same as above. Post Office Address Balaram Ghosal Full name of second joint-inventor, if any Inventor's signature 2D Fishkill Glen Condo., Fishkill Glen Rd, Route 52, Fishkill, New York 12524 Residence India Citizenship Same as above. Post Office Address Sung K. Kang Full name of third joint-inventor, if any Inventor's signature Date 36 Mayberry Road, Chappaqua, New York 10514 Residence United States of America Citizenship Same as above. Post Office Address Stephen Kilpatrick Full name of fourth joint-inventor, if any Inventor's Signature 15 Dartmoor Court, Olney, MD 20832 Residence United States of America Citizenship Same as above.

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| Inventor's Signature | Date | |
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| Citizenship | | |
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| Post Office Address | | |
| | | |
| Donna S. Zupanski-Nielsen Full name of eigth joint-inventor, if any | | |
| Full name of eigth joint-inventor, if any | | |
| | | |
| Inventor's signature | Date | |
| | | |
| 88 Jefferson Court, Yorktown Heights, New York 10598 | | |
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| United States of America | | |
| Citizenship | | |
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| Same as above. | | |
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Docket No. YOR9200301900510

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INTERCONNECTIONS FOR FLIP-CHIP USING LEAD-FREE SOLDERS AND HAVING REACTION BARRIER LAYERS the specification of which (check one) _ is attached hereto. as United States Application Number 10/815,103 X was filed on March 31, 2004 or PCT International Application Number and was amended on ____ (if applicable) I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Sections 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 25 U.S.C. 365(a) of any FCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed: Priority Claimed Prior Foreign Application(s) _ Yes (Day/Month/Year Filed) (Number) (Country) Yes (Day/Month/Year Filed) (Number) (Country) (Day/Month/Year Filed) (Number) (Country) I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below. (Filing Date) (Application Number) (Application Number) (Filing Date) I hereby claim the bedefit under 35 U.S.C.120 of any United States Application(s), or 35 U.S.C.365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application: (Status) (patented, pending, abandoned) (Application Serial No.) (Filing Date) (Status) (patented, pending, abandoned) (Filing Date) (Application Serial No.) I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Docket No. YOR920030190US1

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| Henry A. Nve III | |
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FROM : AKER

NOV 1 8 2004

FAX NO. :914 479 5304

Nov. 15 2004 08:05PM P1

Docket No. YOR920030190US1

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION As a below maned inventor, I hereby declars that:

My residence, post office address and citizenship are as stated below mext to my name;

I believe I om the original, first and sole inventor (if only one mase is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

| INTERCONNECTIONS FOR F. | DIP-CHIP USING LEAD-PREE S | OLDERS AND HAVING REACTION BA | RRIER LATERS |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| the specification of which (che | ck one) | | • |
| is attached hereto. | | | |
| K was filed on March 31, 2 | 004 se United St | ates Application Number 10/815. | 102 |
| or PCT International App | lication Number | | |
| and was amended on | (if applie | sable) | |
| I hereby state that I have revisible claims, as amended by any as | mend and understand the contemberate referred to above. | nts of the above identified speci | fication, including |
| I acknowledge the duty to dische accordance with Title 37, code of | ose information which is mate of Federal Regulations, Secti | risk to the patentability of this on 1.56. | application in |
| any foreign application(s) for papplication which designated at identified below, by sharting the | patent or inventor's certific least one country other than to box, any foreign amplicant | ted States Code, Sections 119(e ats, or 35 U.S.C. 363(a) of any P the United States, listed below on for patent or inventor's certification on which prior | CT International and have also |
| Prior Foreign Application(s) | | • | Priority Claimed |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes Bo |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes Wo |
| (Number) | (Country) | (Day/Month/Year Filed) | _ Yes _ Wo |
| I hereby claim the benefit under | | ed States provisional application | n(s) listed below. |
| (Application Number) | (Piling Date) | _ | |
| (Application Number) | (Filing Data) | | |
| of the claims of this application in the manner provided by the fill information material to the part | n 19 not disclosed in the proset paragraph of 35 U.S.C. | States Application(s), or 35 U.S.(set below and, insofar as the subject United States, or PCT International 112, I acknowledge the dute as defined in 37 C.F.R. 1.55 which one or PCT international filing | oct matter of each tional application ty to disclose |
| (Application Serial No.) | (Filing Date) | (Status) (patented, pend | ing, abandoned) |
| (Application Serial No.) | (Filing Date: | (Status) (patented, pend | ing, abandoned) |
| I becaby declare that all states | ents made herein of my own kn | OWINGS are true and that all ste | tements made on |

I becaby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so nade are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that willful false statements may jeopardise the validity of the application or any patent issued thereon.

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FROM : AKER

FAX ND. 1914 479 5304 Nov. 15 2004 08:07PM P2

Docket No. YOR920030190US1

| DECLERATION AND POWER OF ATTORNEY | FOR PATENT APPLICATION |
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| Keith E. Fogel | · |
| Full name of sole or first inventor | |
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| Inventor's signature | Date |
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| Citizenship | |
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| Post Office Address | |
| Balaram Ghosal | |
| Full name of second joint-inventor, if a | my . |
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| Citizenship | |
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| Post Office Address | |
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| Full name of fourth joint-inventor, if a | уĀ |
| , | |
| Inventor's Signature | Date |
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| United States of America | |
| Citizenship | • |
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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

| Paul A. Lauro | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full name of fifth joint inventor, if any | |
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| Inventor's Signature | Date |
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| Post Office Address | |
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| Full name of sixth joint-inventor, if any | |
| × Newy a. Bet | U/15[0] |
| Inventor's signature | Date |
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| Residence | The state of the s |
| | . • |
| United States of America | |
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(DUNT FORUS)

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FAX NO. : 914 479 5384

FROM: AKER

Docket No. YOR920030

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and fon which a strength of the inventor of the inventor of the subject matter which is claimed and fon which a strength of the inventor of the inventor of the subject matter which is claimed and fon which a strength of the inventor of the subject matter which is claimed and fon which a strength of the subject matter which is claimed and fon which a strength of the subject matter which is claimed and fon which a strength of the subject matter which is claimed and fon which a strength of the subject matter which is claimed and fon which a strength of the subject matter which is claimed and fon which is claimed and fon which is claimed and subject matter which is claimed and subject m

| INTERCONNECTIONS FOR | FLIP-CHIP USING LEAD-FREE | SOLDERS AND HAVING REACTION B | APPIED TAVEDO |
|------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| the specification of which (c | heck one) | THE THE RESERVE A | ANTER LAIERS |
| is attached hereto. | | | |
| X was filed on March 31. | 2004 as United \$ | tates Application Number10/815 | 103 |
| | Application Number | | |
| and was amended on | (if appli | (cable) | |
| I hereby state that I have rethe claims, as amended by any | viewed and understand the contramendment referred to above. | ents of the above identified spec | ification, including |
| I acknowledge the duty to disc accordance with Title 37, Code | close information which is mate a of Faderal Regulations, Secti | erial to the patentability of this | s application in |
| application which designated a identified below, by checking | t least one country other than | ited States Code, Sections 119(, cate, or 35 U.S.C. 365(a) of any I in the United States, listed below ion for patent or inventor's certi of the application on which prior | PCT International and have also |
| Prior Foreign Application(s) | | | Priority Claimed |
| (Number) | (Country) | (Day/Month/Year Filed) | No |
| (Number) | (Country) | (Day/Month/Year Filed) | YesNo |
| (Number) | (Country) | (Day/Month/Year Filed) | Yes No |
| I hereby claim the bonefit und | er 35 U.S.C. 119(e) of any Uni | ted States provisional application | n(s) listed below. |
| (Application Number) | (Filing Date) | · | |
| (Application Number) | (Filing Date) | | |

I hereby claim the benefit under 35 U.S.C.120 of any United States Application(s), or 35 U.S.C.365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 C.P.R. 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this

| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) |
|--------------------------|---------------|-----------------------------------------|
| (Application Serial No.) | (Filing Date) | (Status) (patented, pending, abandoned) |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on thereby declare that all statements made negeth of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and

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Docket No. YOR920030190US1

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